WHAT IS CLAIMED IS:

8 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; 9 SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID 10 NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,486 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,970; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NOs:10,486 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: 3 (a) sequences encoded by a polynucleotide of claim 1; and 4 (b) sequences having at least 90% identity to a sequence encoded by a 5 polynucleotide of claim 1. 3. An expression vector comprising a polynucleotide of claim 1	1	1. An isolated polynucleotide comprising a sequence selected from the			
NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (b) complements of any of the sequences provided in SEQ ID NOs:10,486 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,587 – 10,580; SEQ ID NO:10,978; SEQ ID NO:10,979; SEQ	2	group consisting of:			
NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (b) complements of any of the sequences provided in SEQ ID NOs:10,486 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,587 – 10,580; SEQ ID NO:10,978; SEQ ID NO:10,979; SEQ	3	(a) the sequences provided in SEO ID NOs:10,486 – 10,536; SEQ ID			
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(b) complements of any of the sequences provided in SEQ ID NOs:10,486 complements of any of the sequences provided in SEQ ID NOs:10,486 complements of any of the sequences provided in SEQ ID NOs:10,486 complements of any of the sequences provided in SEQ ID NOs:10,486 complements of any of the sequences provided in SEQ ID NO:10,597; SEQ ID NOs:10,537 – 10,580; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NO:10,846; SEQ ID NO:10,597; SEQ ID NO:10,973; and SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NO:10,597; SEQ ID NO:10,970; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.					
(b) complements of any of the sequences provided in SEQ ID NOs:10,486 8 -10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; 9 SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,486 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; SEQ ID NO:10,974; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NO:10,486 - 10,536; SEQ ID NO:10,537 - 10,580; SEQ ID NO:10,581 - 10,596; SEQ ID NO:10,597; SEQ ID NO:10,597; SEQ ID NO:10,973; and SEQ ID NO:10,971; SEQ ID NO:10,974; and NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: 3 (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.					
8 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; 9 SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID 10 NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,486 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,970; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NOs:10,486 - 10,536; SEQ ID NOs:10,537 - 10,580; SEQ ID NOs:10,581 - 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: 3 (a) sequences encoded by a polynucleotide of claim 1; and 4 (b) sequences having at least 90% identity to a sequence encoded by a 5 polynucleotide of claim 1. 3. An expression vector comprising a polynucleotide of claim 1	0	NO:10,972, SEQ ID NO:10,973, and SEQ ID NO:10,574,			
SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NO:10,486 – 10,536; SEQ ID NO:10,537 – 10,580; SEQ ID NO:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,597; SEQ ID NO:10,973; and SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.	7	(b) complements of any of the sequences provided in SEQ ID NOs:10,486			
NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; (c) sequences having at least 90% identity to any one of the sequences provided in SEQ ID NOs:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NO:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NO:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.	8	– 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597;			
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NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974; and (d) degenerate variants of any one of the sequences provided in SEQ ID NOs:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.	12	provided in SEQ ID NOs:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID			
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(d) degenerate variants of any one of the sequences provided in SEQ ID NOs:10,486 – 10,536; SEQ ID NOs:10,537 – 10,580; SEQ ID NOs:10,581 – 10,596; SEQ ID NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. 2 An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1. 3. An expression vector comprising a polynucleotide of claim 1					
NO:10,597; SEQ ID NO:10,845; SEQ ID NO:10,846; SEQ ID NO:10,970; SEQ ID NO:10,971; SEQ ID NO:10,972; SEQ ID NO:10,973; and SEQ ID NO:10,974. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.		(d) degenerate variants of any one of the sequences provided in SEQ ID			
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from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1. An expression vector comprising a polynucleotide of claim 1					
from the group consisting of: (a) sequences encoded by a polynucleotide of claim 1; and (b) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1. An expression vector comprising a polynucleotide of claim 1	. 1	2 An isolated polymentide comprising an amino acid sequence selected			
3 (a) sequences encoded by a polynucleotide of claim 1; and 4 (b) sequences having at least 90% identity to a sequence encoded by a 5 polynucleotide of claim 1. 1 3. An expression vector comprising a polynucleotide of claim 1					
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 polynucleotide of claim 1. 3. An expression vector comprising a polynucleotide of claim 1 					
1 3. An expression vector comprising a polynucleotide of claim 1					
	5	polynucleotide of claim 1.			
2 operably linked to an expression control sequence.	1	3. An expression vector comprising a polynucleotide of claim 1			
- Promoty 1	2	operably linked to an expression control sequence.			
4. A host cell transformed or transfected with an expression vector	1	4. A host cell transformed or transfected with an expression vector			
2 according to claim 3.					

1		5.	An isolated antibody, or antigen-binding fragment thereof, that	
2	specifically binds to a polypeptide of claim 2.			
1		6.	A method for detecting the presence of a cancer in a patient,	
2				
3		(a)	obtaining a biological sample from the patient;	
4		(b)	contacting the biological sample with a binding agent that binds to a	
5	•	()	polypeptide of claim 2;	
6		(c)	detecting in the sample an amount of polypeptide that binds to the	
7			binding agent; and	
8		(d)	comparing the amount of polypeptide to a predetermined cut-off value	
		()	and therefrom determining the presence of a cancer in the patient.	
算1 ጠ		7.	A fusion protein comprising at least one polypeptide according to	
<u>_</u> 2	claim 2.			
		8.	The fusion protein of claim 7, further comprising Ra12.	
= = 1 ==		9.	The fusion protein of claim 7, further comprising a His tag.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10.	An oligonucleotide that hybridizes to the polynucleotides of claim 1.	
TJ 1		11.	A method for stimulating and/or expanding T cells specific for a	
2	tumor	protei	n, comprising contacting T cells with at least one component selected	
3	from the group consisting of:			
4		(a)	polypeptides according to claim 2;	
5		(b)	polynucleotides according to claim 1; and	
6		(c)	antigen-presenting cells that express a polypeptide according to claim	
7			1, under conditions and for a time sufficient to permit the stimulation	
8			and/or expansion of T cells.	
1		12.	An isolated T cell population, comprising T cells prepared according to	
2	the method of claim 11.			
1		13.	A composition comprising a first component selected from the group	
2	consisting of	nhysio	logically acceptable carriers and immunostimulants, and a second	

3	component selected from the group consisting of:			
4	(a)	polypeptides according to claim 2;		
5	(b)	polynucleotides according to claim 1;		
6	(c)	antibodies according to claim 5;		
7	(d)	fusion proteins according to claim 7;		
8	(e)	T cell populations according to claim 12; and		
9	(f) a	ntigen presenting cells that express a polypeptide according to claim 2.		
1	14.	A method for stimulating an immune response in a patient, comprising		
2	administering to th	e patient a composition of claim 13.		
1	15.	A method for the treatment of a cancer in a patient, comprising		
1 2 3	administering to th	e patient a composition of claim 13.		
1	16.	A method for determining the presence of a cancer in a patient,		
2	comprising the step	os of:		
3	(a)	obtaining a biological sample from the patient;		
4	(b)	contacting the biological sample with an oligonucleotide according to		
4 5		claim 10;		
5 H 6 7 C 8	(c)	detecting in the sample an amount of a polynucleotide that hybridizes		
J 7		to the oligonucleotide; and		
1 8	(d)	comparing the amount of polynucleotide that hybridizes to the		
9		oligonucleotide to a predetermined cut-off value, and therefrom		
10		determining the presence of the cancer in the patient.		
1	17.	A diagnostic kit comprising at least one oligonucleotide according to		
2	claim 10.			
1	18.	A diagnostic kit comprising at least one antibody according to claim 5		
2	and a detection rea	gent, wherein the detection reagent comprises a reporter group.		
1	19.	A method for inhibiting the development of a cancer in a patient,		
2	comprising the step	os of:		
-3	(a)	incubating CD4+ and/or CD8+ T cells isolated from a patient with at		
4		least one component selected from the group consisting of: (i)		
5		polypentides according to claim 2: (ii) polypucleotides according to		

6			claim 1; and (iii) antigen presenting cells that express a polypeptide of
7			claim 2, such that T cell proliferate;
8		(b)	administering to the patient an effective amount of the proliferated T
9			cells, and thereby inhibiting the development of a cancer in the patient.
1		20.	An isolated polynucleotide comprising a sequence selected from the
2	group consisti	ing of:	
3		(a)	sequence provided in SEQ ID NO:10,469 or SEQ ID NO:10,470;
4		(b)	complements of the sequence provided in SEQ ID NO:10,469 or SEQ
5	ID NO:10,470);	
6		(c)	sequences having at least 90% identity to SEQ ID NO:10,469 or SEQ
7	ID NO:10,470); and	
= 8		(d)	degenerate variants of SEQ ID NO:10,469 or SEQ ID NO:10,470.
		21.	An isolated polypeptide comprising an amino acid sequence provided
	in SEQ ID NO	D:10,47	71 or SEQ ID NO:10,474.
5 1		22.	An isolated polynucleotide comprising a sequence selected from the
2	group consisti	ng of:	
3		(a)	sequence provided in SEQ ID NO:10,480;
3		(b)	complements of the sequence provided in SEQ ID NO:10,480;
1 5		(c)	sequences having at least 90% identity to a sequence of SEQ ID
6	NO:10,480; and		
7		(d)	degenerate variants of a sequence provided in SEQ ID NO:10,480.
1		23.	An isolated polypeptide comprising an amino acid sequence of SEQ ID
2	NO:10,481.		
1		24.	An isolated polypeptide comprising an amino acid sequence selected
. 2	from the group consisting of:		
3		(a)	sequences encoded by a polynucleotide of claim 20 or 22; and
4		(b)	sequences having at least 90% identity to a sequence encoded by a
5			polynucleotide of claim 20 or 22.

1	25.	An isolated polypeptide comprising an amino acid sequence selected	
2	from the group consisting of:		
3	(a)	sequences provided in any one of SEQ ID NOs:10,599 – 10,819; and	
4	(b)	sequences provided in any one of SEQ ID NOs:10,820 – 10,842.	
1	26.	An isolated polypeptide comprising an amino acid sequence selected	
2	from the group consis	sting of:	
3	(a)	sequences provided in any one of SEQ ID NOs:10,849 - 10,908; and	
4	(b)	sequences provided in any one of SEQ ID NOs:10,909 - 10,968.	